

**T E C H N I C A L B R I E F****National Pilot Study of the Expanded
“E-Plan HazMat Response System”****Background**

EPA's National Homeland Security Research Center (NHSRC), Threat and Consequence Assessment Division (TCAD), headquartered in Cincinnati, Ohio, is responsible for developing risk assessment and risk communication information and tools. As part of this responsibility, TCAD is testing an expanded version of the “E-Plan HazMat Response System” (E-Plan) for homeland security use. E-Plan is a secure computer system designed to make facility-specific hazardous material information available online to emergency responders and homeland security managers. E-Plan was developed in 2000 through the collaborative efforts of EPA's Region 6 (NM, TX, OK, AR, and LA), the Texas Commission on Environmental Quality (TCEQ), and a team from the University of Texas at Dallas (UTD).



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Expansion of the E-Plan HazMat Response System

E-Plan is a Web-based information system that assembles facility-specific hazard information from numerous sources. The foundation of E-Plan is EPA's Tier II “Right-to-Know” reporting requirements. Tier II requires emergency plans and an annual hazardous chemical inventory report from facilities that use and store chemicals. The Tier II report must include the amounts and specific locations of chemicals as well as information on how the chemicals are stored at the facility. Information submitted under “Right-to-Know” is often filed in paper form and may not be readily accessible by responders during an emergency.

The expanded version of E-Plan provides electronic access to “Right-to-Know” reports from four additional databases, including 24-hour contact information, site and building plans, chemical inventories, and Material Safety Data Sheets (MSDSs) for hundreds of additional facilities. Links within the expanded E-plan program provide access to additional hazardous substance fact sheets, local weather information, area GIS maps, and electronic versions of popular response resources, such as the NIOSH Pocket Guide and the Department of Transportation's Emergency Response Guidebook.

The expanded E-Plan also assists homeland security managers by providing information on clustered facilities, thereby increasing their understanding of area-wide risks, allowing the implementation of precautions, and minimizing potential cascading consequences.

Expanded E-Plan Pilot Study

In February 2005, TCAD began a three-month pilot study to test the expanded version of E-Plan. One hundred pilot participants, representing the following groups, are evaluating the expanded program for ease of use, reliability, and accuracy:

(more)

- Small suburban fire departments (wi-fi enabled areas)
- Medium-sized suburban fire departments
- Large suburban fire departments
- Large urban fire departments
- Multi-jurisdictional hazardous materials response teams
- State and federal environmental on-scene coordinators
- Emergency managers
- Homeland security managers

A report detailing the results of the pilot will be available via NHSRC's Web site beginning August 2005.

For more information, visit the NHSRC Web site at www.epa.gov/nhsrc.

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Incident Manager's Page (Normal View)
Facility: ASHLAND DISTRIBUTION CO. (RY 2003)

Company Name	Phone Number	Address	City/State/Zip	E-PL	Name	Title	Chemical (Click for ERG link)	CAS #	Max. Qty.	UN/DOT#	NFPA Code & Diamond	MSDS	Profile	CHRIS
							AMMONIA / AMMONIUM	7664417	04	2073		MSDS	Profile	N/A
							AMMONIA / AMMONIUM	7664417	04	2073		MSDS	Profile	N/A
							AMMONIA / AMMONIUM	7664417	03	2073		MSDS	Profile	N/A
							CYCLOHEXYLAMINE TECH	108918	02	2357	3 3 0	MSDS	Profile	CHRIS

GUIDE 157
SUBSTANCES - CORROSIVE (Non-Combustible / Water-Soluble)

HEALTH
TOXIC: Irritation, ingestion or contact (skin, eyes) with vapors, dusts or substance may cause severe injury, burns, or death.
Reaction with water or moist air will release toxic, corrosive or flammable gases.
Reaction with water may generate much heat which will increase the concentration of fumes in the air.
Fire will produce irritating, corrosive and/or toxic gases.
Runoff from fire control or dilution water may be corrosive and/or toxic and cause pollution.

FLAMMOR EXPLOSION
Non-combustible. Substance itself does not burn.
Vapors may accumulate in confined areas.
Substance will react with water (acidic reaction).
Reaction with water may generate much heat.
Contact with moisture may produce flammable hydrogen gas.
Containers may explode when heated or if damaged.

CALL Emergency Response Telephone
Isolate spill or leak area immediately for at least 100 feet.
Keep unauthorized personnel away.
Stay upwind.
Keep out of low areas.
Ventilate enclosed areas.

PROTECTIVE CLOTHING
Wear positive pressure self-contained breathing apparatus.
Wear chemical protective clothing which is at least liquid impermeable and provides full body protection.
Structural firefighters' protective clothing provides limited protection.

EVACUATION
Spill: See the Table of Initial Isolation and Protective Action Distances.
Fire: If tank, rail car or tank truck is involved in a fire, do not touch it.
If tank, rail car or tank truck is involved in a fire, do not touch it.

FIRE
Note: Most foams will react with the material.
Small Fires: CO2 (except for cyanides); dry chemical; dry powder.
Large Fires: Water spray, fog or alcohol-resistant foam.

Hydrogen fluoride
• Hydrofluoric acid gas
• Anhydrous hydrofluoric acid

Formula
HF

Description
A colorless fuming mobile liquid with a pungent odor.

Uses
Cleaning caustic, degreaser, removing effluence from enamel, paint, and glass, decaying cellulose, enamel.

Registry Numbers
CAS: 7664-39-3
EINECS: 231-634-8
RTECS: MM7879000
Std. Transport No.: 433024
RCRA: U134
EPA Pest. No.: 49601
UN (DOT): 1052
Marck Index: 4837
7664-39-3 is listed on the TSCA.

Chemical and physical properties
Formula mass: 20.00
Melting point, °C: -35
Boiling point, °C: 106
Vapor pressure, mmHg: 917
Vapor density (air=1): 0.7
Specific gravity/density: 1.15 g/cm³
Solubility in water: Miscible
Odor threshold: 0.5 To 2 ppm

HYDROGEN FLUORIDE, ANHYDROUS
Chemical Identification Information
CAS #: 7664-39-3
UN/NA Number: 1052
CHRIS Code: HFX
Formula: HF
DOT Label: CORROSIVE, POISON
STCC #: 4900024

Synonyms
• ACIDO FLUORIDRICO, ANIDRO (DOT SPANISH)
• ALSEIF 45
• ANHYDROUS HYDROFLUORIC ACID
• ANHYDROUS HYDROGEN FLUORIDE
• ANTISAL 28
• AQUEOUS HYDROGEN FLUORIDE (S.F. HYDROFLUORIC ACID)
• FLUORHYDROIC ACID
• FLUORIC ACID
• FLUORINE HYDROIDE (FH)
• FLUORINE MONOHYDRIDE
• FLUORINE DRYHYDROGEN, ANHYDRE (DOT FRENCIE)
• HF-A
• HYDROFLUORIC ACID
• HYDROFLUORIC ACID, ANHYDROUS
• HYDROFLUORIC ACID, ANHYDROUS (DOT)
• HYDROFLUORIC ACID GAS
• HYDROGEN FLUORIDE
• HYDROGEN FLUORIDE (ANHYDROUS)
• HYDROGEN FLUORIDE (AS F)
• HYDROGEN FLUORIDE (HF)
• HYDROGEN FLUORIDE (HYDROFLUORIC ACID)
• HYDROGEN FLUORIDE, ANHYDROUS
• HYDROGEN MONOFLUORIDE

NFPA Codes
Health: 4
Flammability: 0
Reactivity: 1